

College: **College of Sciences**  
 Department: **Chemistry Department**

Requirements for entering terms: **Fall 2014 - Spring 2016**

Catalog Expires (10 yrs): **August 2026**

Graduation: **Spring 2018 - Spring 2020**



*Credit Range*

	Min	Max
General Education:	33	42
Chemistry:	57	57
Related:	30	33
Electives:	0	0
<b>Total Credits:</b>	<b>120</b>	<b>132</b>



University of Nevada, Las Vegas (UNLV)  
**Chemistry Department**  
 Chemistry Building (CHE-106)  
 702-895-3510  
[www.unlv.edu/chemistry](http://www.unlv.edu/chemistry)

General Education	Course	Min	Max	Course	Min	Max
	First Year Seminar	2	3	Social Science Field 1	3	3
Second Year Seminar	3	3	Social Science Field 2	3	3	
ENG 101 English Composition I	3	3	Social Science Field 3	3	3	
ENG 102 English Composition II	3	3	Multicultural**	0	3	
HIST 100 or PSC 101 US/NV Constitution	4	6	International**	0	3	
Humanities Field 1**	3	3	Milestone Experience	0	0	
Humanities Field 2	3	3	Culminating Experience	0	0	
Fine Arts	3	3				

Chemistry	Course	Min	Max	Course	Min	Max
	CHEM121/121L General Chemistry I	4	4	CHEM 428 Quantum Chemistry	3	3
CHEM122/122L General Chemistry II	4	4	CHEM 431 Advanced Inorganic Chemistry	3	3	
CHEM241 Organic Chemistry I	3	3	CHEM 447 Advanced Synthesis Laboratory	2	2	
CHEM347 Laboratory Techniques of Organic Chemistry	1	1	CHEM 455 Instrumental Analysis	3	3	
CHEM242 Organic Chemistry II	3	3	CHEM 455L Instrumental Analysis Laboratory	2	2	
CHEM348 Laboratory Techniques of Organic Chemistry	2	2	CHEM474 Biochemistry I	3	3	
CHEM355 Quantitative Analysis	3	3	CHEM 491 Senior Seminar in Chemistry	1	1	
CHEM355L Quantitative Analysis Laboratory	2	2	CHEM 493 Senior Research in Chemistry I	1	1	
CHEM421 Physical Chemistry I	3	3	CHEM 494 Senior Research II	2	2	
CHEM422 Physical Chemistry II	3	3	Choose 7 credits of chemistry*	7	7	
CHEM 423 Physical Chemistry Laboratory	2	2				

Related	Course	Min	Max	Course	Min	Max
	Choose: STAT 152 Introduction to Statistics, <u>OR</u> STAT 411 and STAT 412 Statistical Methods I and II, <u>OR</u> STAT 491 and STAT 492 Statistics for Scientists I and II	3	6	MATH181 Calculus I	4	4
			MATH 182 Calculus II	4	4	
			MATH 283 Calculus III	4	4	
PHYS 180 and 180L Engineering Physics I	4	4	MATH 431 Mathematics for Engineers and Scientists I	3	3	
PHYS 181 and 181L Engineering Physics II	4	4				
PHYS 182 and 182L Engineering Physics III	4	4				

Electives	Requirement	Min	Max	Requirement	Min	Max
	Upper Division Credits in the Major (300 or 400 level):	43	49	Electives (any level):	0	0
Upper Division Credits Required for the Degree:	40	40	<i>No additional electives are required for this degree</i>			
Upper Division Elective Credits to Complete:	0	0				

**Notes**  
 \*Choose 7 credits from: CHEM 312, Introduction to Radiochemistry, CHEM 442 Advanced Organic Chemistry, CHEM 472 Biochemistry Laboratory, CHEM 475 Biochemistry II, CHEM 476 Advanced Topics in Biochemistry or CHEM 492 Advanced Topics in Chemistry

**University Requirements**  
 \*\*A minimum of six (6) credits are required, to be composed of a three-credit **multicultural** course and a three-credit **international** course that may simultaneously fulfill other general education requirements (General Education Requirements are Italicized). A single course may not simultaneously meet both the multicultural and international requirements. Discuss with your Academic Advisor! German or Russian is strongly recommended by the Chemistry Department to fill both one Humanities and the International requirement.

**Resident Credit:** A candidate for the baccalaureate degree must complete the last 30 UNLV semester credits in uninterrupted resident credit as a declared major in the degree-granting college. A student must declare a major prior to enrolling in their last 30 UNLV resident credits. (Special examination, physical education activity courses, or Distance/ online credits are exempted.)

**Minimum Credits for Graduation:** The minimum number of semester credits required for a bachelor's degree for a student graduating under the regulations of the 2012 - 2014 Undergraduate Catalog is 120. At least half of the credits required for a baccalaureate degree at the institution must be earned at a four-year institution.

**Minimum University Grade Point Average for Graduation:** In order to graduate, an undergraduate student must have a minimum cumulative grade point average of 2.00 for the total of all college-level credit attempted at the University of Nevada, Las Vegas (UNLV GPA). College and department GPA requirements must also be met.